

**COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
EVIDENCE AUDIT CHECKLIST
U.S. Environmental Protection Agency - Region 8
Environmental Services Division, Multi-Media Branch
Analytical Operations Section**

Audit Number: 08-08-08
Date CSF Received: 12/3/07
Received By: Caul Blamp
Date of Audit: 12/7/07
Audited By: Caul Blamp
Resubmitted CSF? Yes ☐ No ☒
Lab Name: A-4 Scientific, Inc
Lab Location: The Woodlands, TX

Site Name: Richardson Flat Tailings
Site Manager: Kathryn Hernandez
RAS Number: 36948
ULSA Number: _____
SDG Number: MH23W6
Number of Samples: 20/4/5
CLP Lab Code: A-4

AUDIT CHECKLIST

CHAIN OF CUSTODY

- | | |
|---|---|
| 1. Custody Seal Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Unsigned <input type="checkbox"/> | |
| 3. Chain of Custody Record(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present? ^{CB} | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s) <u>863198575033 79550675499</u> | |
| 10. Airbill Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

AUDIT NUMBER: 08-08-08

FORM DC-2

14. Form DC-2 Present?
15. Numbering Scheme on Form DC-2 Correct?
16. Enclosed Documents Listed?
17. Listed Documents Enclosed?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

FORM DC-1

18. Form DC-1 Present?
19. Form DC-1 Complete?
20. Form DC-1 Correct?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

DOCUMENT CONTROL

21. Laboratory Documents Complete?
22. Laboratory Documents Legible?
23. Original Documents Included in CSF?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

DATA INSPECTION

4. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
5. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?
6. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
7. Percent Solids Form present for soil samples?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

NOTE: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

AUDIT NUMBER: 08-08-08

COMMENTS AND NOTES:

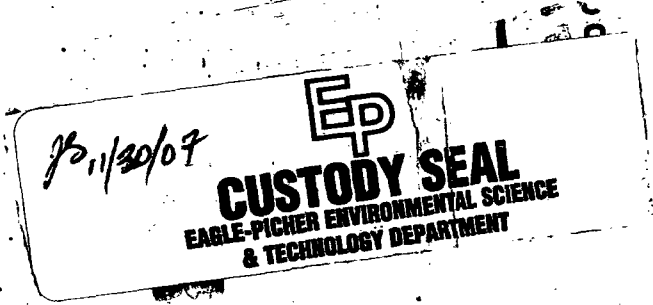
Candace 12/7/07

Auditor

Date

EPA OFFICIAL SEALS PAGE

Please attach all custody seals below:



AUDIT NUMBER: 08-08-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE #: 36948 SDG #: MH23W6

SITE NAME: Richardson Flat Tailings

RPM: Kathryn Hernandez

DATE: 12/7/07

AUDITOR: Candace

Audit #08/08/08
RAS - 36948
SDG - MH23W6
Site - Richardson Flat Tailings
RPM - Kathryn Hernandez
Date - 12/7/07
LAB - A-4

USEPA-CLP

COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057
 Lab Code: A4 Case No: 36948 NRAS No.: _____ SDG No: MH23W6
 SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH23W6	0008710-01
MH23W6D	0008710-01D
MH23W6S	0008710-01S
MH23W7	0008710-02
MH23W8	0008710-09
MH23W9	0008710-10
MH23X0	0008710-03
MH23X1	0008710-04
MH23X2	0008710-05
MH23X3	0008710-06
MH23X4	0008710-07
MH23X5	0008710-08
MH23Y6	0008710-11
MH23Y7	0008710-12
MH23Y8	0008710-13
MH23Y9	0008710-14
MH23Z0	0008710-15
MH23Z1	0008710-16
MH23Z2	0008710-17
MH23Z3	0008710-18

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?	(Yes/No)	<u>NO</u>	<u>NO</u>

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Reddy Pakanati

Name:

REDDY PAKANATI

Date:

11/30/07

Title:

LABORATORY MANAGER000000001

USEPA-CLP

COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057
Lab Code: A4 Case No: 36948 NRAS No.: _____ SDG No: MH23W6
SOW No.: IIM05.4
EPA Sample No. Lab Sample ID
MH23Z4 0008710-19
MH23Z5 0008710-20

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?	(Yes/No)	<u>NO</u>	<u>NO</u>

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy Pakanati Name: REDDY PAKANATI
Date: 11/30/07 Title: LABORATORY MANAGER 000000002

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057**Case #: 36948****SDG #: MH23W6****SDG NARRATIVE****SAMPLE RECIEPT & LOGIN**

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23W6	0008710-01	11/12/07 10:02	795506075499	ICP-AES	1	MS/DUP	SOIL
MH23W7	0008710-02	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23W8	0008710-03	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23W9	0008710-04	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X0	0008710-05	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X1	0008710-06	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X2	0008710-07	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X3	0008710-08	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X4	0008710-09	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23X5	0008710-10	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH24Y6	0008710-11	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Y7	0008710-12	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Y8	0008710-13	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Y9	0008710-14	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z0	0008710-15	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z1	0008710-16	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z2	0008710-17	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z3	0008710-18	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z4	0008710-19	11/12/07 10:02	795506075499	ICP-AES	1		SOIL
MH23Z5	0008710-20	11/12/07 10:02	795506075499	ICP-AES	1		SOIL

ICP-AES

Issue: Samples for case 36948 were received on 11/12/2007. TR/COC listed tag numbers do not match physical tag numbers.

Resolution: Per Region 8 Lab recorded the physical sample tag number on form DC-1 and proceeded with analysis of samples.

Issue: For samples received on 11/12, there was no temperature blank in the cooler. The cooler temperatures were determined to be 7 degrees. The following method was used to record cooler temperature. Removed ice between two sample containers and placed thermometers between them and stabilized for several minutes. The thermometer was not allowed to come in contact with any material except sample containers. The temperature of the shipping container was recorded on the TR/COC and form DC-1.

Resolution: Per direction from Region 8, the lab proceeded with the analysis of the samples.

Issue: There were no custody seals on any of the coolers.

Resolution: Per Region 8, Lab proceeded with the analysis of the samples.

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A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057

Case #: 36948

SDG #: MH23W6

SDG NARRATIVE

Issue: Lab received one cooler for Case 36948 on 11/12/2007. This cooler was supposed to have been received by the lab on Friday (11/09/07) along with 5 other coolers but was not delivered by FedEx until Monday. Samples were received in zip lock bags. Ice in cooler had melted and seeped into zip lock bags and mixed with the sample. Lab believes the integrity of samples had been compromised due to water seeping into bags. Airbill # 795506075499. The affected samples were:

MH23W6
MH23W7
MH23X2
MH23X3
MH23W8
MH23W9
MH23Y8
MH23Z0
MH23Z1
MH23Z3
MH23Z4

Resolution: Per Region 8, the laboratory dried the affected samples and proceed with the analysis.

SMO was notified. Directive is enclosed. No other discrepancies or issues were noted during receipt and login.

ICP-AES

Soil Samples were digested by Hot-Block technique (HS2) and analyzed using a Thermo Electron ICAP6500.

MS and DUP were performed on sample "MH23W6" and they were within the QC limits.

Analytes with Serial Dilution percent difference not within the control limits are flagged with "E" on Form1s and Form8.

The following Samples were analyzed at a dilution for some elements to bring the concentration below the LDRs. The dilutions were made as below:

Sample ID	Dilution	Volume of digestate (ul)	Volume of 2% HNO3 (ul)	Final Volume (ul)
MH23W8	1.3	7,692	2,308	10,000
MH23X4	1.4	7,143	2,857	10,000
MH23Y6	1.7	5,882	4,118	10,000
MH23Y8	1.6	6,250	3,750	10,000
MH23Y9	1.3	7,692	2,308	10,000
MH23Z0	1.5	6,667	3,333	10,000
MH23Z1	1.3	7,692	2,308	10,000
MH23Z2	1.3	7,692	2,308	10,000
MH23Z4	1.4	7,143	2,857	10,000
MH23Z5	1.5	6,667	3,333	10,000

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A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057	Case #: 36948	SDG #: MH23W6
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SDG NARRATIVE

The following equations are used for calculation of sample results from raw instrument output data:

ICP-AES

SOIL Samples:

$$\text{Concentration (dry Wt.) (mg/kg)} = \frac{C * V}{W * S} * DF$$

Where,

C = Concentration (mg/L)

V = Final sample volume in Liters (L) (0.1L)

W = Wet sample weight (kg) (0.001kg)

S = % solids/100

DF = Dilution Factor

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SAMPLE LOG-IN SHEET

Lab Name A4 SCIENTIFIC, INC.				Page 1 of 1	
Received By (Print Name) Jessica Schulze				Log-in Date 11-12-07	
Received By (Signature) <i>Jessica Schulze</i>					
Case Number 36948		Sample Delivery Group No. MH23W6		NRAS Number ~	
Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) Present Absent* Intact/Broken		MH23W6	NA	8311170	008710-01
2. Custody Seal Nos. NA 1		W7		8311164	-02
3. Traffic Reports/Chain of Custody Records or Packing Lists Present /Absent*		W8		8311177	-09
4. Airbill Airbill /Sticker Present/Absent*		W9		8311178	-10
5. Airbill No. 795506075499 NA		X0		8311160	-03
6. Sample Tags Present /Absent*		X1		8311159	-04
Sample Tag Numbers Listed /Not Listed on Traffic Report/Chain of Custody Record		X2		8311161	-05
		X3		8311165	-06
7. Sample Condition Intact /Broken*/Leaking		X4		8311158	-07
8. Cooler Temperature Indicator Bottle Present Absent*		X5		8311183	-08
9. Cooler Temperature 74°C		Y6		8311168	-11
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? Yes /No*		Y7		8311156	-12
		Y8		8311176	-13
11. Date Received at Lab 11-12-07		Y9		8311172	-14
12. Time Received 10:02		20		8311181	-15
Sample Transfer		21		8311184	-16
Fraction MH5	Fraction	22		8311157	-17
Area # Cooler A	Area #	23		8311163	-18
By JS	By JS	24		8311155	-19
On 11-12-07	On 11-12-07	25		8311185	-20

* Contact SMO and attach record of resolution

Reviewed By JS	Logbook No. NA
Date 11/12/07	Logbook Page No. 6

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>A4 SCIENTIFIC, INC.</u>	
CITY/STATE <u>THE WOODLANDS, TX</u>	
CASE NO. <u>36948</u>	SDG NO. <u>MH23W6</u>
SDG NOS. TO FOLLOW <u>NA</u>	
NRAS NO. <u>NA</u>	
CONTRACT NO. <u>EPWD6057</u>	
SOW NO. <u>ILM05.4</u>	

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		LAB	CHECK REGION
	FROM	TO		
1. Cover Page	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. SDG Narrative	<u>3</u>	<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample Log-In Sheet (DC-1)	<u>6</u>	<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Inventory Sheet (DC-2))	<u>7</u>	<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Traffic Report/Chain of Custody Record(s)	<u>9</u>	<u>11</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>12</u>	<u>31</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>32</u>	<u>40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. CRQL Standard (Form IIB-IN)	<u>41</u>	<u>48</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. Blanks (Form III-IN)	<u>49</u>	<u>55</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>56</u>	<u>62</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>63</u>	<u>63</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14. Duplicates (Form VI-IN)	<u>64</u>	<u>64</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15. Laboratory Control Sample (Form VII-IN)	<u>65</u>	<u>65</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>66</u>	<u>66</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Method Detection Limits (Annually) (Form IX-IN)	<u>67</u>	<u>69</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>70</u>	<u>70</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>71</u>	<u>71</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>72</u>	<u>72</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21. Preparation Log (Form XII-IN)	<u>73</u>	<u>73</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22. Analysis Run Log (Form XIII-IN)	<u>74</u>	<u>80</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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FROM

TO

LAB

REGION

23. ICP-MS Tune (Form XIV-IN) NA NA ✓ —
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN) 1 1 ✓ ✓
25. ICP-AES Raw Data 81 630 ✓ ✓
26. GFAA Raw Data (If Applicable) NA NA ✓ —
27. ICP-MS Raw Data 1 1 ✓ —
28. Mercury Raw Data 1 1 ✓ —
29. Cyanide Raw Data 1 1 ✓ —
30. Preparation Logs Raw Data 631 6845 ✓ ✓
31. Percent Solids Determination Log 6876 687 ✓ ✓
32. USEPA Shipping/Receiving Documents
Airbill (No. of Shipments 1) 688 688 ✓ ✓
Sample Tags 689 695 ✓ ✓
Sample Log-In Sheet (Lab) 696 697 ✓ ✓
33. Misc. Shipping/Receiving Records
(list all individual records)
Telephone Logs NA NA ✓ —
1 1 ✓ —
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)
Custody Logbook 698 698 ✓ ✓
NA NA ✓ —
35. Internal Original Sample Prep & Analysis Records (describe or list)
Prep Records Digestion Log 631 632 ✓ ✓
Analysis Records Run Logs 633 643 ✓ ✓
Description Standard prep logs 644 686 ✓ ✓
36. Other Records (describe or list)
Telephone Communications Log NA NA ✓ —
Emails 699 701 ✓ ✓
NA NA ✓ ✓
37. Comments: 11/29/07

Completed by:

(CLP Lab)

(Signature)

Jessica Schufre

(Print Name & Title)

sample Custodian

(Date)

11/30/07

Audited by:

(USEPA)

(Signature)

Carmel Beal

(Print Name & Title)

Carmel Beal

(Date)

12/7/07

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USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No:
SDG No: MH23W6

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>CL</i>	For Lab Use Only	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/6/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
	4		J. Schulze 11/12/07 1002		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23W6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG116 (1)	UE05-RR-0.5	S: 11/1/2007 17:00		
MH23W7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG117 (1)	UE18-CNTY-0.5	S: 11/1/2007 15:00		
MH23W8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG118 (1)	UE18-CNTY-1.0	S: 11/1/2007 15:15		
MH23W9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG119 (1)	UE19-CNTY-0.5	S: 11/1/2007 15:30		
MH23X0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG120 (1)	UE21-CNTY-0.5	S: 11/1/2007 15:25		
MH23X1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG121 (1)	UE22-CNTY-0.5	S: 11/1/2007 15:00		
MH23X2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG122 (1)	UE22-CNTY-1.0	S: 11/1/2007 15:15		
MH23X3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG123 (1)	UE23-CNTY-0.5	S: 11/1/2007 16:30		
MH23X4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG124 (1)	UE24-CNTY-0.5	S: 11/1/2007 16:15		
MH23X5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG125 (1)	UE26-CNTY-0.5	S: 11/1/2007 16:30		

13589
0008710-01
-02
-039
-0410
-083
-064
-075
-086
-097
-1008
Intact
11/12/07

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23W6, MH23Y1	Additional Sampler Signature(s): <i>23</i> 11/12/07	Cooler Temperature Upon Receipt: <i>7.3</i> 11/12/07	Chain of Custody Seal Number: <i>23</i> 11/12/07
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <i>4</i>

TR Number: 8-065602925-110707-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY


**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

Case No: 36948
DAS No:
SDG No: MH23W6 **L**

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>Ch Hayes</i>	For Lab Use Only Lab Contract No: EPW06057 Unit Price: 0 Transfer To: Lab Contract No: 28 Unit Price: 11/12/07	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07	Janna Simonsen		11/06/07
	2 Janna Simonsen	11/8/07			
	3				
	4		J. Schulz	11/12/07 1002	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23Y6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG136 (1)	UW18-47-0.5	S: 11/1/2007 11:40	0008710-11	Intact
MH23Y7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG137 (1)	UW19-47-0.5	S: 11/1/2007 9:30	-12	
MH23Y8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG138 (1)	UW21-47-0.5	S: 11/1/2007 11:20	-13	
MH23Y9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG139 (1)	UW22-47-0.5	S: 11/1/2007 11:35	-14	
MH23Z0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG140 (1)	UW23-47-0.5	S: 11/1/2007 13:35	-15	
MH23Z1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG141 (1)	UW24-47-0.5	S: 11/1/2007 13:20	-16	
MH23Z2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG142 (1)	UW26-47-0.5	S: 11/1/2007 10:05	-17	
MH23Z3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG143 (1)	UW28-47-0.5	S: 11/1/2007 10:50	-18	
MH23Z4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG144 (1)	UW29-47-0.5	S: 11/1/2007 13:50	-19	
MH23Z5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG145 (1)	UW29-47-1.0	S: 11/1/2007 13:55	-20	Final

Shipment for Case Complete? <input checked="" type="checkbox"/> N	Sample(s) to be used for laboratory QC: MH23W6, MH23Y1	Additional Sampler Signature(s): <i>J. Schulz</i> 11/12/07	Cooler Temperature Upon Receipt: 6°C	Chain of Custody Seal Number: <i>03</i> 11/12/07
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/> Y	Shipment Iced? <input checked="" type="checkbox"/> Y

TR Number: 8-065602925-110707-0004

 PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

**SAMPLE DELIVERY GROUP (SDG)
COVER SHEET**

SDG Number: MH23W6

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: _____

SDG Turnaround: 21 days

Modified Analysis (if applicable):

Modification Reference No.: _____

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH23W6	7) MH23X2	13) MH23Y8	19) MH23Z4
2) MH23W7	8) MH23X3	14) MH23Y9	20) MH23Z5
3) MH23W8	9) MH23X4	15) MH23Z0	21)
4) MH23W9	10) MH23X5	16) MH23Z1	22)
5) MH23X0	11) MH23Y6	17) MH23Z2	23)
6) MH23X1	12) MH23Y7	18) MH23Z3	24)

MH23W6

First Sample in SDG

MH23Z5

Last Sample in SDG

11/12/2007

First Sample Receipt Date

11/12/2007

Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Jessica Schuf
Signature

11/12/07
Date